THE 1986 LOTUS

INDEX

JANUARY THROUGH DECEMBER, 1986

INDEX LEGEND

The following letters appear throughout the index and denote the Lotus program(s) to which an entry pertains:

o = 1-2-3 **s** = Symphony **j** = Jazz

ACCELERATOR BOARDS (*see* **BOARDS**)

ACCOUNTING
balance-sheet spreadsheet, o,s, Jun, 60
budget reporting in general ledger, o,s, Sep, 48
building a depreciation schedule, o,s, Dec, 90
calculating vacation-day liability, o,s, Oct, 62
cash-flow reporting, o,s, Jan, 44
A Checkbook Register in *1-2-3*, Sep, 75; Nov, 8
cross-tabulation analysis, o,s, Sep, 68
general ledger, creating, o,s, Jun, 57; Jul, 48; Aug, 45; Sep, 48
generating accounting forms, o,s, Apr, 51
income statement, creating, o,s, Jul, 48
inventory spreadsheet tips and error detection, o,s, Dec, 46
pro forma statements, creating, o,s, May, 46
quarterly compounding factor, o,s, Jan, 75
software reviews (*see* **REVIEWS, SOFTWARE**)
sorting journal entries by sequence number, o,s, Aug, 45
statement of changes, creating, o,s, Jul, 50
tracking amortizing loans, o,s, Nov, 54
tracking employee vacations, o,s, Oct, 60
trial-balance spreadsheet, o,s, Jun, 58

ALLEN, PAUL: Bill Gates's Silent Partner, profile, Oct, 26

APPLE (*see also* **JAZZ**)
AppleTalk, Jan, 65
AppleWorks to WKS file translation, May, 92
Macintosh:
Chromatron, color for Mac, Mar, 26
making the Mac more businesslike, Mar, 15
radio interference with external disk drive, Jul, 88

ART, computer-assisted, May, 24; Oct, 22

ARTIFICIAL INTELLIGENCE
building expert systems, Apr, 16
Coming to Terms with (WKS), essay, Jul, 120
natural-language-understanding programs, Jun, 10

BANKING
A Checkbook Register in *1-2-3*, Sep, 75; Nov, 8
electronic home banking, Jan, 18
simplifying credit decisions, o,s, Feb, 57

BOARDS
date and time with Quadboards, Sep, 110
80386 for PC AT and compatibles, Dec, 24
expanded memory boards, Jan, 55
graphics:
enhanced adapters at Comdex/Spring '86, Jun, 17
Hercules, configuring for faster scrolling, Jan, 103
Hercules, configuring to display graphics, Feb, 124
Tseng Laboratories' monochrome, displaying 132 columns, o, Apr, 130
Vutek, May, 24
multifunction:
application-specific integrated circuits (ASICs), Dec, 11
Quadram's QuadEGA+, Apr, 20
squeezing features onto, Apr, 20
Tecmar's MegaFunction, Apr, 20
PC-Max processor computes at 16 mips, Feb, 12
Quadram Gold boards, installing, o,s, Nov, 116

BOOLEAN EXPRESSIONS
analyzing a database with, o,s, Sep, 66
using, o,s, Feb, 70; Jul, 8

BRAINERD, PAUL: Trying to Keep Aldus Competitive, profile, May, 22

BUSINESS/MANAGEMENT
business-simulation software, Dec, 84
effects of mergers on data-processing departments, Oct, 20
finding sustainable growth, o,s, Feb, 45
software reviews (*see* **REVIEWS, SOFTWARE**)
statistics and forecasting models, o,s, Oct, 92; Dec, 8
strategic information systems, Mar, 13
using matrix manipulation for job costing, o, Oct, 81
writing procedures to improve management control, o, Feb, 83

CENSOR, JOHN: Executive Trainer, profile, Feb, 22

CHARITY, database of corporate, Feb, 24

CLOCK (*see* **DATE/TIME**)

COMMUNICATIONS
answering machine in *Symphony*, macro, Jul, 56
at-home banking, Jan, 18
at-home museum, Feb, 21
at-home shopping, Feb, 24
capturing data, s, Aug, 93
cellular data communications, Apr, 25
COMM settings, overriding, s, Nov, 114
COMM settings for World of Lotus, s, Mar, 85
COMM window, controlling log-in sequence, s, May, 100
conferencing software, Aug, 22
databases (*see* **DATABASE SERVICES**)
direct-connect 9600-baud link with *Symphony,* Sep, 108
electronic mail:
coming of age, May, 24
sending nontext worksheets, Sep, 20
software for accessing, Nov, 30
with *Symphony*, Jul, 52; Aug, 76
future of news media, Mar, 24
local area signaling service, May, 24
on-line education, Dec, 24
on-line news, X-Press, Jan, 28
on-line trading, Feb, 12
parsing downloaded investment data, s, Jun, 81
PC Network, Jan, 63
Photophone, micro plus video, Jan, 28
protocol, MNP, Mar, 22
protocol, X.PC, Mar, 20
protocol standards, Mar, 19
remote-access software, Nov, 11
Signal, investment data in real time, Feb, 76
transmitting data from IBM to DEC, o, Mar, 110
U.S.–Soviet Civilian Link, Jan, 28
voice-phone products, Mar, 16

COMPATIBILITY
drivers for HP printers and plotters, o,s, Nov, 116
formatting disk on IBM for use on DEC and vice versa, Sep, 110; Nov, 116
impact of Intel's 80386 chip on PC standards, Oct, 17
The Incompatibility Headache (D. Caruso), essay, Sep, 148
Lotus-certified compatible computers, o,s, Nov, 118
1-2-3, Symphony, and the IBM PC Network Program, Dec, 94
1-2-3 Rel. 1 and DOS 2.1, Jan, 77
1-2-3 Rels. 1A and 2, Mar, 45; Jul, 8; Aug, 89; Dec, 103
SideKick and *Symphony,* function keys scrambled, Apr, 107
Spotlight requires *Symphony* to be in toggle mode, Feb, 101
Symphony Rels. 1 and 1.1, Jul, 8
using File Manager from *1-2-3* Rel. 1A with Rel. 2, Nov, 102
using *1-2-3* Rel. 1A PrintGraph with Rel. 2 PIC file, Jul, 85

COMPUTERS
avoiding computer crime, Sep, 15
burned-out power supplies plague users, Jun, 24
buying and selling used, Aug, 12; Oct, 8
Compaq, expanding memory on, Apr, 130
Compaq Deskpro with 80386, Oct, 18
error messages on Wang PC, o, Oct, 122

Fortune 1000 not buying PC clones, Aug, 16
in the classroom, Jul, 24
laptop:
  an overview, Nov, 70
  at Comdex/Fall '85, Jan, 14
  IBM unveils, May, 17
legal aspects of computer technology, Nov, 30
Lotus-certified compatibles, o,s, Nov, 118
low-cost IBM compatibles, Jan, 16
microprocessors, history of, Mar, 72
operating life of, Jul, 24
PC use in Australia, Aug, 18
PCs and office productivity, Oct, 158
plastics may replace silicon, Jun, 28
RISC-based machines, Feb, 10
Sperry PC and *Symphony*, Jul, 100
troubleshooting and repair, software and videotapes, Oct, 28
using micros in place of mainframes, Mar, 18
using Plus Hardcard with one-drive IBM PC, Sep, 110

CONFLICT RESOLUTION, simulation program, Apr, 32; Aug, 26

CRITERION RANGE (*see* **RANGE**)

CUSTOMER SUPPORT, remote-access debugging service, Nov, 14

DATA STORAGE, Dataport subterranean facility, Feb, 12

DATABASE
adding fields to forms, s, Sep, 108
analyzing with data tables, o,s, Sep, 66
checkbook register, creating, o, Sep, 75
Cleanmail eliminates mailing-list duplicates, Mar, 26
composing form letters from, s, Nov, 92
converting labels to numbers, Aug, 90
creating employee statements from, o, Sep, 106
creating in *1-2-3*, Jun, 62
cross-tabulation analysis, o,s, Sep, 68
Data Query commands, o,s, Dec, 76
Data Query Find, cannot update record in *1-2-3* Rel. 1A, Jan, 75
definition of, Feb, 29; Jun, 45
editing records, o, Dec, 32
FORM window, s, Jun, 48
free-form entry and retrieval, Aug, 26
inserting column letters with string function, o,s, Aug, 92
printing:
  Above and Below Report ranges, o,s, Oct, 108
  custom reports using *1-2-3 Report Writer*, o,s, Feb, 91
  multiple-pass reports, s, Feb, 93
  ranges in *Symphony* FORM window, May, 82
  sequentially numbered database records, o,s, May 96
protecting fields, s, Dec, 99
reducing Criterion range to speed recalculation, o,s, Nov, 104
searching for label entries, o,s, Sep, 103; s, Sep, 104
setting up data tables, o,s,j, Aug, 56
software reviews (*see* **REVIEWS, SOFTWARE**)
sorting:
  basics, o, Jun, 63
  canceling Sort keys, s, Jan, 77
  numbers entered as labels, o,s, Oct, 112
  Symphony expects field name at top of Sort range, Apr, 107
  using more than three keys, o,s, Jan, 84; Aug, 87
  using three keys, o, Mar, 90
statistical functions, o,s, Oct, 89; Nov, 77
troubleshooting, s, Sep, 82
verifying selection criteria, o,s, Sep, 102

DATABASE SERVICES
Bureau of Labor statistics, o, Aug, 26
comparison shopping at home, Feb, 24
computerized gardening, Apr, 32
computerized road maps, Dec, 24
Cultural Conflict (A. Glossbrenner), essay, Jun, 140
electronic business markets, Feb, 12
George Plimpton's Great Speaker's File, Sep, 26
investment:
  Dow Jones News/Retrieval (stocks and bonds), Exchange Network (real estate), Gemco (oil and petrochemicals), Telerate Systems (money markets), Feb, 13
museum at home, Feb, 21
National Directory of Corporate Charity, Feb, 24
Post Office converts zip codes, Nov, 30
strategic information systems, Mar, 13
Videotex in France, Jun, 28
X-Press on-line news, Jan, 28

DATE/TIME
@TODAY vs. @NOW, o,s, Jun, 91
calculating elapsed time, o,s,j, Jul, 70
calculating last day of each month, o,s, Jul, 80; Nov, 103
calculating number of months between dates, o,s, Dec, 98
calculating same day each month, o,s, Feb, 74
converting dates to values, o,s, Oct, 108
date-stamping worksheet, macro, o,s, Feb, 98
days since start of Gregorian calendar, o,s, Dec, 98
finding day of week, o,s, Mar, 89; o,s,j, Jun, 90
macro utilities, s, May, 36
month dd, yyyy format, macro, o,s, May, 93
setting system clock, Apr, 96
simplifying date entry, macro, s, May, 37
testing for weekends, o,s,j, Jun, 90; o,s, Oct, 103
time-stamping worksheet, macro, o,s, Feb, 98
using time in calculations, o,s, Aug, 92

DESKTOP
accessory software, *Spotlight*, Apr, 72
publishing:
  at Comdex/Fall '85, Jan, 13
  DEC teaming with Interleaf, Dec, 18
  new PC software, Jun, 14
  Paul Brainerd: Trying to Keep Aldus Competitive, profile, May, 22

DEVELOPERS, tips for creating applications, o,s,j, Sep, 44

DISK
deleting graphics printer driver from System Disk, o,s, Jul, 84
floppy:
  3½-inch format for IBM PC, May, 19
  defective write-protect tabs on 3M disks, Dec, 108
hard:
  copying *1-2-3* Rel. 2 with copy protection onto PC AT, Apr, 97
  hard-disk cards, Aug, 100
  loading *1-2-3* from hard disk, Apr, 97
  organizing, Nov, 83
  problem loading *Symphony* and data files from Tallgrass, May, 116
optical:
  at Comdex/Fall '85, Jan, 13
  CD-ROM conference, May, 14
  data standards, May, 15
  mainframe storage on a PC, Jan, 14
printing disk directory, Dec, 105
RAM vs. disk space, o,s, Dec, 107

DOS (*see also* **OPERATING ENVIRONMENTS**)
accessing subdirectories, o, Aug, 88
batch file reminder that DOS is active, o,s, Jul, 84
batch file reminder to insert program disk, o,s, Oct, 108
batch files, Nov, 22
DEC VAXmate adheres closely to MS-DOS, Dec, 17
file names reserved by, o,s, Dec, 104
listing subdirectories on hard disk, o,s, Sep, 102
memory used by SERVICES DOS and /System commands, o,s, Jun, 95
1-2-3 Rel. 1 and DOS 2.1 compatibility problem, Jan, 77
utility for saving sort, o, Nov, 113
viewing large directories, Feb, 91
write-protect error warning, Feb, 98

ELECTRONIC MAIL (*see* **COMMUNICATIONS**)

ERROR
@IRR error, o,s, Mar, 90
avoiding lookup-table errors, o,s, Jan, 80
avoiding *memory full* error, o,s, Feb, 98
creating error messages in macros, s, Mar, 42
error messages in *Symphony* database, Sep, 86
error messages on Wang PC, o, Oct, 122
error trapping in macro loops, s, Apr, 45
error trapping with @D functions, o,s, Nov, 78
handling rounding errors, macro, o,s, May, 90
No files of specified type on disk error message, o, Jul, 88
parity-check errors, Jun, 124
Part of File Missing error message, o,s, Mar, 82

Spotlight memory-error message, Feb, 94
write-protect error warning, Feb, 98

ESSAYS
Coming to Terms with AI (WKS), Jul, 120
Controlling Your Information Destiny (R. Dalton), Oct, 158
Coping with Change (C. McClure), Jan, 138
Cultural Conflict (A. Glossbrenner), Jun, 140
The Growing Information Gap (H. Rosenfield), Apr, 150
The Incompatibility Headache (D. Caruso), Sep, 148
The Next Software Explosion (J. Shirley), May, 134
RAM Stuffers (R. Immel), Aug, 126
Some Future Trends in Spreadsheets (S. J. Kaplan), Feb, 138
Three Cheers for Unix (S. Kelly-Bootle), Nov, 164
The Trouble with Spreadsheets (J. McGrath), Mar, 130
What We Can Learn from *PacMan* (T. Nelson), Dec, 144

EXPANDED MEMORY (*see* **MEMORY**)

FILE
backing up, s, Feb, 40; o, Aug, 88; Nov, 11; Dec, 24
changing default drive, o,s, Mar, 82
combining, o,s, Jun, 93
combining using Copy, Add, and Subtract, o,s, Oct, 111
creating index file, o,s, Apr, 104
DOS utility for saving sort, o, Nov, 113
erasing PIC, o,s, Mar, 82
file already saved indicator, macro, o,s, Jan, 81
File Manager:
- accessing subdirectories, o, Jan, 77; Dec, 104
- copying to System Disk in *1-2-3* Rel. 1A, Jul, 85
- using, o, Apr, 107
- using from *1-2-3* Rel. 1A with Rel. 2, o, Nov, 102

File Xtract vs. File Save, o,s, Sep, 102
full-screen menu of file names, macro, s, Apr, 107
listing more than 151 files in *1-2-3* Rel. 1A locks computer, Mar, 85
multiple configuration files, o,s, Mar, 88; Jul, 84
multiple-file applications, macros, s, Aug, 37; Sep, 37
names reserved by DOS, o,s, Dec, 104
names to avoid, o,s, Jan, 80
prevent overwriting, o,s,j, Jul, 80; o,s, Dec, 98
recovery tips, o,s, Mar, 84
retrieving:
- from different subdirectories, o, Dec, 103
- non-English *Symphony* files, Jun, 96
- *Part of File Missing* message, o,s, Mar, 83
- problems, Apr, 43
- speeding up in *1-2-3* Rel. 2, Feb, 100

save, macros, o, May, 29; Nov, 33

FILE TRANSLATION
AppleWorks to WKS, May, 92
dBase III to *1-2-3* or *Symphony*, Aug, 92
Desq, file transfer within, Feb, 17
IBM DCA standard, Feb, 14
1-2-3 database files to *Symphony* FORM window, Jul, 87
MacWrite to *Jazz*, Mar, 90
Multiplan to *1-2-3* or *Symphony*, Oct, 111
porting mainframe software to micros, Mar, 17
SuperCalc3 to *1-2-3* or *Symphony*, Oct, 111
Symphony document to ASCII word processor, s, Dec, 99
TopView, file transfer within, Feb, 17
transferring currency values to DIF, o,s, Nov, 113
Translate utility vs. macro for range transposition, o, Sep, 31
using *1-2-3* Rel. 2 Translate utility, o, Mar, 48
Wang DBM II to IBM format, o,s, Jun, 95
WRK to *dBase*, s, Jan, 84

FINANCE
advanced financial functions, o,s, Dec, 89
analyzing quantity discounts, o,s,j, Jun, 50
calculating economic order quantity, o,s,j, Jun, 51
calculating sinking funds, o,s, Jul, 80
comparing investments, o,s, Sep, 59; Nov, 9
comparing personal insurance policies, o,s, Dec, 58
creating pro forma statements, o,s, May, 46
evaluating investments with NPV, o,s, Mar, 66; Sep, 10
evaluating negative principal values with @PMT, o, Dec, 97
finding payback period, o,s, Feb, 97
finding sustainable growth, o,s, Feb, 45
lease vs. purchase, o,s, Jul, 40
loan analysis using data tables, o,s,j, Aug, 56
percent-of-sales forecasting, o,s, May, 46
simplifying credit decisions, o,s, Feb, 57
solving for loan balance, o,s, Dec, 105
solving for loan payments remaining, o,s, Sep, 106; Dec, 102
tracking cash flow using sensitivity analysis, o,s, Oct, 67

FORECASTING
building models, o,s, May, 56; Oct, 92
effects of seasonal adjustments on sales, o,s, Mar, 65
forecasting sales from selling actions, o,s, May, 54
percent-of-sales forecasting, o,s, May, 46
software reviews (*see* **REVIEWS, SOFTWARE**)

FORMULAS
address-label, s, Jun, 45
as criteria with Data Query commands, o,s, Dec, 78
Boolean expressions, using, o,s, Feb, 70; Jul, 8
calculating area of polygons, o,s, Apr, 100
calculating Canadian mortgages, o,s, Oct, 108
calculating economic order quantity, Jun, 51
calculating factorials, o,s, Oct, 104
calculating present/future value of lump-sum payment, o,s, Jun, 100
calculating remaining loan balance, o,s, May, 90; Dec, 105
calculating sinking funds, o,s, Jul, 80
consequences of decimal repression, o,s, Jul, 76; Oct, 8
converting numbers to strings, s, Apr, 47
converting to labels for debugging, o, Oct, 74
converting to values, s, May, 38; o, Aug, 88
copying relative or absolute cell references, o,s,j, Oct, 100
counting labels, o, Sep, 32
date/time:
- calculating elapsed time, o,s,j, Jul, 70
- calculating last day of each month, o,s, Jul, 80; Nov, 103
- calculating months between dates, o,s, Dec, 98
- days since start of Gregorian calendar, o,s, Dec, 98
- finding day of week, o,s, Mar, 89; o,s,j, Jun, 91
- finding same day each month, o,s, Feb, 74
- using time in calculations, o,s, Aug, 92

distinguishing numbers from, o,s, Nov, 105
entering long formulas as labels, advantages of, s, Jun, 46
finding @IRR, o,s, Jan, 81
finding blank cells, o,s, Feb, 91
finding blanks in database, j, Apr, 107
finding sustainable growth, o,s, Feb, 45
floating-point routines, o,s, Jul, 77; j, Jul, 78
logical operators, o,s, Feb, 72
manipulating values entered as labels, o,s, Sep, 107
parsing labels, o,s, Jun, 101
point when defining, o, Oct, 71
printing, o,s, Apr, 97
range names can change formulas, o,s, Feb, 97
rounding:
- numbers down, o,s, Apr, 38
- to nearest 50 cents, o,s, Aug, 9
- up to nearest multiple, o,s, Feb, 97; Jun, 100
- up to next integer, o,s, Jan, 81

solving for loan payments remaining, o,s, Sep, 106; Dec, 102
streamlining, o,s, Feb, 70; Jan, 81
tax:
- calculating maximum on current salary, o,s, Oct, 110
- calculating year-to-date maximum, o,s, Apr, 97

testing for weekends, o,s,j, Jun, 90; o,s, Oct, 103
using @HLOOKUP with @DSUM, o,s, Feb, 98
using matrix manipulation instead of, o, Oct, 81
weighted averages, o,s, Sep, 102

FUNCTIONS
advanced financial functions, o,s, Dec, 89
converting dates to values, o,s, Oct, 108
database statistical functions, o,s, Sep, 66; Oct, 89; Nov, 77
Date functions, introduction, o,s, Dec, 69
evaluating investments with @NPV, o,s, Mar; Sep, 10
evaluating negative principal values with @PMT, o, Dec, 97
including extra rows in @SUM ranges, o, Oct, 73
a list as @SUM argument, o,s, Apr, 96
statistical @functions, o,s,j, Jan, 57
using @functions:
@COUNT to test for empty cells, o,s, Oct, 104
@IF, o,s,j, May, 88
@IF and @PV in lease vs. purchase, o,s, Jul, 40
@ROUND to correct floating-point errors, o, Nov, 114
@VALUE with calculations, o,s, Dec, 106
@VLOOKUP for interpolation, o,s, Oct, 103
@VLOOKUP in general ledger, o,s, Jul, 49
violating natural order of recalculation, s, Sep, 12

GIBBONS, FRED: Now Targeting the "Power User," profile, Dec, 22

GILNER, BURT: Gridiron Hacker, profile, Jan, 26

GRAPHICS
adapters, enhanced, Jul, 16
ASCII graphics characters in worksheets, o,s, Jun, 100
boards (*see* **BOARDS**)
CAD and micros, Jul, 22
high-end systems getting smaller and cheaper, Sep, 18
linking PCs to overhead projectors, Jul, 24
output devices, Jan, 67
presentation-graphics software overview, o,s, Apr, 79
printing billboard-size posters, Aug, 26
software reviews (*see* **REVIEWS, SOFTWARE**)
3-D perspective in presentation graphics, Nov, 19
TI and Intel high-performance graphics chips, Apr, 11

GRAPHS
avoiding nonzero origins, o, Oct, 75
choosing symbols for line and XY graphs, o,s, Nov, 103
creating 3-D graph legends, j, Feb, 94
displaying multiple graphs, s, Jan, 74
editing Titles cells without clearing settings, o,s, Feb, 98
effects of seasonal adjustments on sales, o,s, Mar, 65
error bars, o,s, Mar, 59
exploding pie graphs, o,s, Jun, 95
floating graph legends and titles, o,s, May, 90
graphing noncontiguous ranges, o,s, Jun, 101
histograms, o,s, Mar, 59
long data labels, o,s, Jan, 80
naming vs. saving, o,s, Jan, 74; Jul, 87
No files of specified type on disk error message, o, Jul, 88
PrintGraph:
copying to System Disk in *1-2-3* Rel. 1A, Jul, 85
eliminating graph scale when plotting, o,s, Jun, 103
Houston Instrument DMP-29 driver and, o,s, Jul, 100
organizing settings sheets, o,s, Apr, 105
problem with BLOCK1.FON in *1-2-3* Rel. 1A, Oct, 110
to and from quickly, o,s, Dec, 98
using *1-2-3* Rel. 1A PrintGraph with Rel. 2 PIC file, Jul, 85
working with, o,s, Aug, 70; Nov, 9
printing four on a page, Oct, 122
printing multiple graphs with HP-7550A plotter, o,s, Aug, 94
printing wide graphs on Epson FX-100, o, Dec, 108
reducing bar widths, o,s, Jul, 84
regression line, plotting, o, Jun, 87
scatter diagram, creating, o, Jun, 86
scientific data, plotting, o,s, Mar, 57
stock data, plotting, s, Jun, 82
tips for better graphs and transparencies, o,s, Feb, 100
using cell contents as titles, o,s, Jul, 82
using string functions to create graphs in spreadsheet, o,s, Jul, 65

HARDWARE
AT-compatible batteries, Sep, 26
Houston Instrument DMP-29 driver and PrintGraph, o,s, Jul, 100
impact of Intel's 80386 chip, Oct, 11
installing *Symphony* on Tallgrass hard disk, Oct, 113
Lotus-compatible peripheral drivers, o,s, Jul, 100
operating life of, Jul, 24
single-drive IBM PCs and hardcards, Sep, 110
Sperry PC and *Symphony*, Jul, 100

HEALTH
Bodylink peripheral, Feb, 24
computerized bathtub, Jun, 28

HELP FACILITY
accessing screens with Backspace, o,s, Aug, 87
avoiding pressing HELP key by mistake, o, Mar, 90

HYPERSPACE
recalculation problem with {CALC} command, s, Aug, 41
running macros from, s, Nov, 42
writing macros in, s, Jul, 37

IBM
laptop computer unveiled, May, 17
PC Network, Jan, 63
TopView, file transfer within, Feb, 17
voice-phone products, Mar, 16

INFORMATION SYSTEMS (*see* **DATABASE SERVICES**)

INPUT
keyboard shortcuts, May, 69
low-cost image scanners, Mar, 26
mouse, using with graphics software, Apr, 82
Mouse Systems mouse and *1-2-3*, Oct, 122
pictograph touchscreen, inputting Chinese-language characters, Jun, 28

INSTRUCTION (*see* **TRAINING**)

INVESTMENT
calculating payback period of, o,s, Jul, 59
calculating rate of return, o,s, Oct, 103
comparing investments, o,s, Sep, 59; Nov, 9
creating a stock market index, o,s, Nov, 63
data in real time with *Signal,* Feb, 76
database:
Dow Jones News/Retrieval (stocks and bonds), Exchange Network (real estate), Gemco (oil and petrochemicals), Telerate Systems (money markets), Feb, 13
evaluating with @NPV, o,s, Mar; Sep, 10
graphing payback-period analysis, o,s, Jul, 59
graphing stock data, s, Jun, 82
on-line trading, Feb, 12
parsing downloaded data, s, Jun, 81
software reviews (*see* **REVIEWS, SOFTWARE**)
tracking stocks with *Symphony*, s, Jun, 79

JAZZ
centering numbers, May, 100
combining with *MacPaint,* Mar, 90
continuous underlining in document, Aug, 89
creating 3-D graph legends, Feb, 94
cutting and pasting range names, Aug, 93
cutting vs. copying formulas, Apr, 97
drawing straight arrows, Feb, 94
formatted blank cells use memory, Jan, 79
highlighting noncontiguous records, Sep, 105
MacWrite-to-*Jazz* file translation, Mar, 90
Modem Type Other setting, Mar, 85
moving margins in document, Feb, 101
paginating worksheet, Apr, 97
printing screen dumps, Oct, 113
training (*see* **REVIEWS, TRAINING**)
using with Apple modem, Jun, 96
word-processing defaults, Aug, 93

JENKINS, KEVIN: Creating His Own PC Graphics Standard, profile, Nov, 28

KEYBOARD (*see* **INPUT**)

LABELS
centering, o,s, Mar, 82
concatenating, o, Feb, 31; Mar, 31
converting to numbers, Aug, 90
counting in row or column, o, Sep, 32
debugging formulas by converting to, o, Oct, 74
determining number of characters in, macro, o, Nov, 110
hiding, o, Feb, 100
mixing numbers and labels, o, Mar, 46
parsing, o, Mar, 33; o,s, Jun, 101
searching database for label entries, o,s, Sep, 103; s, Sep, 104
sorting numbers entered as, o,s, Oct, 112

LICS, displaying and printing special characters with, o,s, Jul, 71
LINEAR REGRESSION (*see* **STATISTICS**)
LOCAL AREA NETWORKS
cost of installing, Aug, 15
DEC's new VAXmate micro as link to minis, Dec, 17
1-2-3, Symphony, and the IBM PC Network Program, Dec, 94
PC Network, Token Ring Network, AppleTalk, Jan, 63
wiring college campuses, Dec, 18
LOOKUP TABLES
advanced techniques, o,s,j, Sep, 93; Dec, 99
avoiding errors, o,s, Jan, 80
determining day of week, o,s,j, Jun, 90
introduction, o,s,j, Aug, 64
transposing ranges using @LOOKUP functions, o, Mar, 90
use in design engineering, o,s, May, 92
MACINTOSH (*see* **APPLE, JAZZ**)
MACROS, GENERAL
@D functions in, o, s, Nov, 80
basic utility macros, o,s, Oct, 57
blank cells, dealing with, o, Feb, 91
branching:
  conditional branch using /XI command, o, Jan, 34
  using /XC, /XG, and /XM commands, o, Jan, 35
  using @CHOOSE, s, Apr, 46
commands:
  editing keywords into macros, o, Apr, 40
  file I/O keywords in multiple-file macros, s, Sep, 37
  flow control using /X commands, o, Jan, 33
  key indicators, o, Jun, 74
  ordering /XI commands, o, Nov, 33
  string formulas used as, s, Jan, 40
  undocumented keywords, o, Nov, 37; s, Nov, 42
  {WAIT}, s, Oct, 48
creating slide show, o,s, Jun, 101
debugging:
  missing tildes, o, Oct, 76
  using {DISPATCH}, s, Nov, 42
  using {INDICATE}, s, Oct, 76
documenting, o,s, Mar, 89; Apr, 100
execution:
  {BEEP} commands to signal end, o,s, Dec, 97
  breaking out of, o, Nov, 37
  pausing, o,s, Jan, 80; May, 92
  using /XQ command to stop, o, Jan, 36
file-saving macros can be dangerous, o, May, 29
FOR loops, o, Jun, 38
Hyperspace, s, Jul, 37; Aug, 41; Nov, 42
invoking on different computers, o, Nov, 42
learn mode, s, Oct, 43; o, Dec, 28
looping macros, o, Jun, 33
macro generator add-in, j, Sep, 11
Macro Library Manager (*see* **HYPERSPACE**)
menus:
  creating a macro menu tree, o,s, Mar, 89; Aug 92
  creating user-defined, s, Feb, 39
  tips, o, Nov, 37
moving cell pointer, o, Jul, 29; o, Nov, 34
names, using descriptive, o, Jan, 82
prompting for input, s, Feb, 40
range and cell addresses in, o, Aug, 29
range names, advantages of in macros, s, Jul, 38; o, Oct, 76
reassigning keys for numerical data entry, s, Oct, 48
recalculation:
  problem in Hyperspace, s, Aug, 41
  speeding up, o, Nov, 34
reducing movement commands, o, Jul, 29
reducing screen flicker, o, Nov, 34
self-modifying macros, s, Jan, 39
using *SideKick* as macro editor, o, Sep, 32
writing your first *1-2-3* macro, Jun, 72
MACROS, SPECIFIC
accumulating combined files, s, Aug, 37
auto-redialing in COMM window, s, May, 39
backing up files, s, Feb, 40
beep, different tones, s, Apr, 47; Nov, 42
building a depreciation schedule, o,s, Dec, 90
calculating factorials, o,s, May, 100
capturing keystrokes, s, Mar, 41
combining data from different files, s, Jul, 35
concatenating labels, o, Feb, 31; Mar, 31
converting data, o, Aug, 32
converting formulas to values, s, May, 38
converting numbers to words, o, Apr, 107
counting file retrievals, o, Dec, 32
counting rows and columns in range, o, Apr, 93
creating answering machine, s, Jul, 56
creating E-mail system, s, Jul, 52
creating employee statements from database, o, Sep, 106
creating error messages, s, Mar, 42
creating help screens, s, Mar, 40
cursor movement:
  commands, s, Apr, 47; o, Jul, 29
  finding beginning of row/column, o,s, Feb, 97
  moving to specified column heading, o, Apr, 42
data-table generator for large worksheets, o, Oct, 32
date-stamping worksheet, o,s, Feb, 98
deleting range names, s, Dec, 39
determining number of characters in label, o, Nov, 110
editing database records, o, Dec, 32
entering column of numbers, s, Dec, 43
entering data, o, Oct, 32; Nov, 38
entering dates, s, May, 37; Oct, 44
erasing cells, o, Jul, 32
erasing duplicate numbers, o, Dec, 30
error-trapping in loops, s, Apr, 45
file already saved indicator, o,s, Jan, 81
file transfer for E-mail, s, Aug, 76
finding row/column of current pointer location, o, Mar, 79
formatting columns, s, Oct, 43
full-screen file-name menu, s, Apr, 107
generating mailing labels, o, Feb, 30
handling rounding errors, o,s, May, 90
hiding current column, s, May, 36
inserting specified number of rows, o, Apr, 37
invoking add-ins, s, Sep, 104
learn mode in *1-2-3* Rel. 2, Dec, 28
linear regression, o,s, Nov, 51
locating first blank worksheet row, o, Dec, 97
looping:
  deleting characters from string, o,s, Jul, 86
  fast data entry in BASIC, o,s, Nov, 104
month dd, yyyy format, o,s, May, 93
parsing labels, o, Mar, 33
printing:
  address labels, o, Feb, 30; s, Jun, 45
  multiple ranges, s, Oct, 46
  reports from several files, s, Jul, 35
  sequentially numbered database records, o,s, May, 97
recalculating worksheet, o, Dec, 33
renumbering steps, s, Nov, 42
replacing blank cells with zeros, o, Dec, 33
setting column widths, s, May, 36; o, Jun, 73
summing column of numbers, s, Dec, 45
synchronizing *Symphony* windows, s, Apr, 94
testing benchmarks, s, Sep, 41
time-stamping worksheet, s, May, 36; Feb, 98
tracking employee vacations, o,s, Oct, 62
transposing ranges, o, Sep, 29
underlining labels, s, Oct, 46
word-wrap macro, o, Jun, 76
writing procedures to improve management control, o, Feb, 83
MANAGEMENT (*see* **BUSINESS/MANAGEMENT**)
MEMORY
avoiding *Memory full* error, o,s, Feb, 98
boards (*see* **BOARDS**)
expanded memory:
  boards, Jan, 55
  description of, Jan, 52
  how it works, Jan, 54
  LIM and AST standards, Jan, 53
expanding Compaq using 256K chips, Apr, 130
hard-disk cards, Aug, 100
increasing available memory of HP-150, o, Apr, 105
managing efficiently, o,s,j, Apr, 57
organizing hard disk, Nov, 83
organizing worksheet for better memory use, o,s, Apr, 57
parity-check errors, Jun, 124
portable hard disks, Dec, 14
RAM vs. disk space, o,s, Dec, 107
RAM-resident software, desktop manager, o,s, Apr, 72
random-access, Apr, 57

used by cell entries, o,s, Apr, 58
used by SERVICES DOS and /System commands, o,s, Jun, 95
using Plus HardCard with one-drive IBM PC, Sep, 110

MODEMS
Hayes:
  Hayes-compatible 1200-baud getting cheaper, Jul, 21
  setting DIP and software switches, s, Jun, 124
  speaker control, s, Jan, 103
Modem Type Other setting, j, Mar, 85
Popcom:
  macro to turn off autoanswer, s, Feb, 124
  X100 incompatible with Rolm phones, fix for, s, Mar, 85

MONITORS
accessing available colors, Oct, 28
CRT magnifier, Sep, 26
liquid-crystal color shutters, Jan, 14

MORROW, GEORGE: Time Runs Out for His Computer Company, profile, Jun, 26

NATURAL LANGUAGE (*see* **ARTIFICIAL INTELLIGENCE**)

NEGROPONTE, NICHOLAS: The Future of Media, profile, Mar, 24

NETWORKS (*see* **LOCAL AREA NETWORKS**)

NEWS
future of news media, Mar, 24
HP Portable newsletter, Mar, 26
X-Press on-line news, Jan, 28

NORTON, PETER: Computer Guru, profile, Sep, 24

1-2-3
copying COMMAND.COM to Rel. 2 Utility Disk, Mar, 85
copying Rel. 2 with copy protection onto AT hard disk, Apr, 97
displaying 132 columns, Apr, 130
installing Rel. 2.01, Nov, 100
loading from hard disk, Apr, 97
memory used by /System command, Jun, 95
Rel. 1A:
  and Rel. 2, compatibility, Mar, 45
  copying File Manager and PrintGraph to System Disk, Jul, 85
  problem with BLOCK1.FON on PrintGraph disk, Oct, 110
Rel. 2:
  extraneous characters when printing, Jul, 88; Nov, 113
  increasing scrolling speed, Dec, 97
  installing correct drivers, Oct, 110
  matrix-manipulation features, Oct, 81
  using Backspace to access hard-disk directory, Dec, 97
tips and tricks, Oct, 70
unsupported graphics characters, Mar, 46
using business-case analysis to teach, Dec, 86
using File Manager from Rel. 1A with Rel. 2, Nov, 102
using Rel. 2 Translate Utility, Mar, 48
using with Mouse Systems mouse on IBM PC, Oct, 122

1-2-3 REPORT WRITER
creating custom reports using, o,s, Feb, 91; Oct, 111
installing on hard disk, Aug, 90
Lotus-certified compatible computers, o,s, Nov, 118
Lotus-compatible peripheral drivers, o,s, Jul, 100
review, o, May, 107

OPERATING ENVIRONMENTS (*see also* **DOS**)
IBM's *TopView,* file transfer in, Feb, 17
Microsoft's *Windows:*
  at Comdex/Fall '85, Jan, 13
  file transfer within, Feb, 15
Quarterdeck's *Desq,* file transfer within, Feb, 17
Unix favored in some markets, Nov, 164
Unix, the future looks bright, May, 11

OPTICAL TEXT SCANNERS, low-cost image scanners, Mar, 26

OPTOELECTRONICS, Jan, 28

PAGINATION (*see* **PRINTING**)

PERIPHERALS (*see* **BOARDS, INPUT, MODEMS, MONITORS, OPTICAL TEXT SCANNERS,** *and* **PRINTERS**)

PRINTERS, GENERAL
dot-matrix, basics of, Jan, 67
graphics output devices, Jan, 67; Apr, 81
ink-jet, basics of, Jan, 69
installing multiple printer drivers, o,s, Dec, 106
laser:
  at Comdex/Fall '85, Jan, 13
  basics of, Jan, 69
Lotus compatibles, Jan, 68
operating life of, Jul, 24
plotters, basics of, Jan, 70
resetting, o,s, Jan, 82; Jul, 82
reusing ribbons, Jan, 103; Sep, 110
setup and init-strings, o,s, Sep, 98
using parallel port with *Symphony* Rel. 1.1, Jun, 96

PRINTERS, SPECIFIC
DEC LA50 and LA100, setup/init strings, o,s, Jun, 124
Diablo 630, problems using with *Symphony,* Mar, 110
Epson:
  enlarged print mode on LQ1500, o,s, May, 116
  expanded print mode, Jun, 124
  page-break problem, Sep, 110
  printing wide graphs on FX-100, o, Dec, 108
  setup/init strings, o,s, Feb, 124
  17 cpi and 12 lpi, Apr, 130
  to print more than 100 lines per page, o,s, Jan, 74
  using Gemini Star 10X or 15X drivers with MX, s, Dec, 108
Houston Instrument DMP and PC plotters, o.s, Jul, 100
HP LaserJet:
  large worksheets, o,s, Apr, 130
  setup/init strings, o,s, Mar, 110
  wide graphs, o, Feb, 124
HP-7550A plotter, multiple graphs with, o,s, Aug, 94
Inforunner Riteman, DIP switch settings, s, Mar, 110
Okidata, setup/init strings, o,s, Jan, 103
Okidata Microline 93, extraneous characters on graph, Nov, 116
Star Micronics SR-15, setup/init string for elite print, o,s, Apr, 130
TI 855 printer, extraneous characters with, o, Jul, 88
Toshiba, setup strings, Dec, 108

PRINTGRAPH (*see* **GRAPHS**)

PRINTING
Above and Below Report ranges in database, o, s, Oct, 108
cell contents in different styles, o,s, Sep, 102
combining setup strings, o,s, May, 116
disk directory, o,s, Dec, 105
elite print in Star or IBM mode, o,s, Sep, 110
embedding setup/init strings within Print range, o,s, May 116
flowcharts, o, Aug, 87
footer on last page of document, o,s, Nov, 114
footer on wide printers, o,s, Jul, 87
formulas, o,s, Apr, 97
four graphs on a page, Oct, 122
headers and footers, s, Apr, 88
mailing labels, macro, o, Jul, 32
margins, Print and Format Settings sheets, s, Apr, 87
more than 100 lines per page, o,s, Jan, 74
multiple graphs with HP7550A plotter, o,s, Aug, 94
noncontiguous ranges, o,s, Jan, 74; Mar, 88; Jun, 101
page breaks in worksheet, inserting, o,s, Jan, 75; Feb, 92; j, Apr, 97; o, Jul, 88
pagination, o,s, Mar, 84; s, Apr, 87
parts of a *1-2-3* or *Symphony* printed page, Jan, 75
PRN files, o,s, Jan, 74
reports:
  cleaner-looking, o,s, Feb, 97
  from several files, macro, s, Jul, 35
  multiple-pass, s, Feb, 93
  software reviews (*see* **REVIEWS, SOFTWARE**)
  using *1-2-3 Report Writer,* o,s, Feb, 91; Oct, 111
  using *Symphony* report generator, s, Jun, 48
screen dumps with *Jazz,* Oct, 113
sequentially numbered database records, o,s, May, 96
skipping lines in printouts, s, May, 93
specified pages, s, Apr, 88
starting with page number other than 1, o, Nov, 106
Symphony Print Settings sheet, use of, Apr, 86
three-across mailing labels, s, Aug, 80; Oct, 8
using LICS for special characters, o,s, Jul, 71
using *1-2-3* Rel. 1A PrintGraph with Rel. 2 PIC file, Jul, 85
utilities (*see* **REVIEWS, SOFTWARE**)
with *1-2-3* Rel. 1A fonts in Rel. 2, Aug, 89

PROFILES
Allen, Paul: Bill Gates's Silent Partner, Oct, 26
Brainerd, Paul: Trying to Keep Aldus Competitive, May, 22
Censor, John: Executive Trainer, Feb, 22
Gibbons, Fred: Now Targeting the "Power User," Dec, 22
Gilner, Burt: Gridiron Hacker, Jan, 26
Jenkins, Kevin: Creating His Own PC Graphics Standard, Nov, 28
Morrow, George: Time Runs Out for His Computer Company, Jun, 26
Negroponte, Nicholas: The Future of Media, Mar, 24
Norton, Peter: Computer Guru, Sep, 24
Rubinstein, Seymour: MicroPro's Founder Speaks Candidly, Aug, 24
Saal, Harry: Riding IBM's Coattails, Apr, 30
Walker, John: Bringing CAD to Micros, Jul, 22

RANGE
absolute copies of ranges, o,s, Aug, 87
adding mixed ranges, o,s, 107
Criterion range:
  checking for blank rows in, o, Oct, 76
  copying field names to, o,s, Feb, 97
  reduce to speed recalc, o,s, Nov, 104
  using dates in, o,s, Feb, 92
finding blank cells, o,s, Nov, 107
in *Symphony* database, s, May, 82
Justify command:
  concatenating labels with, o, Mar, 32
  counting words with, o, Jan, 83
  description of, o, Mar, 32
  parsing labels with, o, Mar, 32
macros for manipulating, o, Aug, 29
names:
  advantages of in macros, o, Oct, 76
  assigning to cells/ranges, o,s,j, Apr, 68
  can change formulas, o,s, Feb, 97
  can't begin with a number, o,s,j, Aug, 9
  finding quickly, o,s, Dec, 98
  in @functions, o,s, May, 75
  in formulas, o,s, Apr, 68
  keeping track of, o,s,j, Apr, 69
  moving, o, Feb, 34; Aug, 32
  redefining, o,s, May, 77
  selecting and using, s, Feb, 42; o,s,j, Apr, 70
  table of, o,s, Apr, 107; May, 76
Restrict range in windows, s, Mar. 37
saving keystrokes using /Range Label, o, Oct, 72
Transpose, using @LOOKUP functions, o, Mar, 90
using Backspace for printing, o,s, Oct, 103
using Data Fill, o, Oct, 75
using EDIT and Copy command to calculate range, o, Oct, 72
using list of ranges as argument in @SUM function, o,s, Apr, 96

REAL ESTATE
calculating Canadian mortgages, o,s, Oct, 108
Exchange Network database, Feb, 14
software reviews (*see* **REVIEWS, SOFTWARE**)

REGRESSION (*see* **STATISTICS**)

REPORTS (*see* **PRINTING**)

REVIEWS, BOOKS
Accounting with Lotus 1-2-3, by K. Ochi and P. Hughes [Boston: Kent Publishing, 1983], Jan, 124
Data Sharing with 1-2-3 and Symphony, by D. Anderson [Berkeley, Calif.: Sybex Inc.], Jul, 98
Orchestrating 1-2-3: Notes for Advanced Users, by D. Rier and E. Fine [Reading, Mass.: Addison-Wesley], Apr, 138
Symphony Business Solutions, by M. and C. Matthews [Radnor, Pa.: Chilton Book Co.], Aug, 111

REVIEWS, HARDWARE, Examining Hard- Disk Cards, Aug, 100

REVIEWS, PERIODICALS
Absolute Reference, [Indianapolis: Que Publishing], o,s; *Conducting Your Business . . . Using Symphony* [Greenbelt, Md.: Lamarian Systems], s; *Jack McGrath's @MAX* [Hingham, Mass.: Jack McGrath], o; *The Symphony User's Journal* [Louisville, Ky.: The Cobb Group], s; Mar, 118

REVIEWS, SOFTWARE
accounting:
  Autoplan, Cash-Flow Forecaster, o, Jun, 112
  Checkbook and Shoestring Accounting, CPS Personal Financial Planner, My-Tutor Checkbook, o, Mar, 94
  Credit Committee, o, May, 104
  Easier than 1-2-3 Time and Billing, Timeslips, o, Sep, 112
  Ledger Domain, o,s, *Micro-One-Write,* o, Dec, 114
  Payroll Solution, o,s, Feb, 104
  The Requirements Analyst, o, Mar, 98
  Spreadlink/CF, o, Sep, 114
  Staff Accountant, s, May, 108
agriculture:
  Crop Management, Swine Farrowing Management, Feedlot Cattle Management, o,j, Apr, 114
business/management:
  Management Analysis and Planning, o, Jun, 114
communications:
  Lyrics, s, Jul, 92
data retrieval:
  XYZ:Query, o,s, Nov, 126
database management:
  The Database Pack, s, Nov, 128
desk accessory:
  Tempo, j, Sep, 118
engineering:
  The Beam Analysis Applications Package, o, Oct, 114
file backup/management:
  Norton Utilities, o,s, May, 107
financial planning:
  PC Plan, s, Oct, 118
  The Professional Plan, o, Nov, 121
forecasting:
  1,2,3 Forecast, o, Jan, 90
graphics:
  Datasurf, o,s, Nov, 124
  Executive Picture Show, o,s, Jan, 88
  The Grafix Partner, o,s, Feb, 108
inventory:
  The Entrepreneur's Inventory Workplate, o, May, 106
  Inventory Control Autoplate, o, Mar, 92
investment:
  Rory Tycoon Portfolio Manager, o, Stock Record Query Portfolio Manager, o,s, Apr, 110
  The Venture Analyst, o, Jul, 94
mapping:
  Atlas-AMP, Advanced Mapping Package, o, May, 107
marketing:
  Marketing Edge, o, Jul, 90
operating environment:
  DoubleDOS, o,s, *Memory/Shift,* o,s, Aug, 96
printing/report generation:
  Adapta-Print, ColorScreenPrint, o,s, *Pretty Face,* o, Jun, 106
  Inset, o,s, Apr, 112
  1-2-3 Report Writer, o, May, 107
  Printer Boss, o,s, Sep, 120
  Sideways, o,s, May, 107; Sep, 120
real estate:
  The Professional Real Estate Analyst, o, Oct, 116
screen utility:
  Fansi-Console, o, May, 106
statistics:
  Multifit, Add-a-Stat, o, *Sympathy,* s, Jun, 122
tax:
  Everything You Need to Do Your Taxes with Lotus 1-2-3, TaxCalc, TaxPad, TaxTime 1040 Professional, o, Feb, 110
worksheet utility:
  AutoSave, Save Our Spreadsheet, o, *SQZ, Your Move,* o,s, Dec, 112
  Quickcode for *1-2-3,* o, Aug, 98
  SmartNotes, o,s, Dec, 110
  X-Y-Z Consolidate, o,s, Jan, 86

REVIEWS, TRAINING
Advanced Training for 1-2-3, Lotus 1-2-3: Advanced Features, Lotus 1-2-3: An Introduction to the Integrated Spreadsheet, MicroRef Quick Reference Guide to Lotus 1-2-3, Teach Yourself Lotus 1-2-3, Jan, 110
All About Lotus 1-2-3, Jul, 96
FastStart 1-2-3 Tutorial, May, 118; Jul, 8
Individual Training for Lotus 1-2-3, Jan, 111; Feb, 126
Introduction to Lotus 1-2-3, Jan, 111; Apr, 134
Macros and Other Advanced Features of Lotus 1-2-3, Apr, 134
1-2-3: Tips, Tricks, and Traps, PC-DocuMate, Using 1-2-3, Using the Lotus 1-2-3 Program, Jan, 111
Symphony: Graphics, Data Management, and Communications, Symphony: Windows, Spreadsheets, and Word Processing, Dec, 116
Teach Yourself Jazz, Mar, 116

ROBOTS
building, Apr, 32
PCs in manufacturing, Oct, 24
ROUNDING (*see* **FORMULAS**)
RUBINSTEIN, SEYMOUR: MicroPro's Founder Speaks Candidly, profile, Aug, 24
SAAL, HARRY: Riding IBM's Coattails, profile, Apr, 30
SALES
adjusting data for seasonal patterns, o,s, Mar, 62
data tables in sales-force database, o,s, Sep, 66
forecasting sales from selling actions, o,s, May, 54
percent-of-sales forecasting, o,s, May, 46
simplifying credit decisions, o,s, Feb, 57
strategic information systems increase market share, Mar, 13
SECURITY (*see* **WORKSHEET PROTECTION**)
SIGNAL, investment data in real time, Feb, 76
SIMULATION PROGRAMS
business-simulation software, Dec, 84
conflict resolution: *The Other Side,* Aug, 26
new developments at universities, Oct, 28
Terrorism and Travel: Antiterrorism Simulation Exercises, Aug, 21
visiting Paris with *Ticket to Paris,* Nov, 30
SOFTWARE
charting, diagramming, drawing, Apr, 79
expert system, building, Apr, 16
The Next Software Explosion (J. Shirley), essay, May, 134
porting mainframe software to micros, Mar, 17
presentation-graphics, Apr, 79
public-domain, May, 61
reviews (*see* **REVIEWS, SOFTWARE**)
standards for RAM-resident programs, Aug, 126
Trojan-horse programs, Jul, 13
SPOTLIGHT
memory-error message, Feb, 94
requires *Symphony* to be in toggle mode, Feb, 101
using, o,s, Apr, 72
SPREADSHEETS (*see* **WORKSHEETS**)
STATISTICS
determining best fit using method of least squares, o, Jun, 86
finding median and mode, o,s, Nov, 107
linear regression, o, Jun, 85; o,s, Nov, 51
multiple regression, o, Jun, 87
negative R-squared value in data regression, o, Aug, 93
performing a t-test, o, Sep, 102
scatter diagram, creating, o, Jun, 86
software reviews (*see* **REVIEWS, SOFTWARE**)
statistical functions, introduction, o,s,j, Jan, 57
SUMMING
cumulative totals, o,s, Jan, 80; May, 100
year-to-date totals, o, Jan, 80; o,s, Jan, 81
SYMPHONY
and Intel 8087 coprocessor, s, Oct, 112
built-in report generator, using, Jun, 49
capturing data into columns, Aug, 93
composing form letters from database, Nov, 92
creating E-mail system with, Jul, 52; Aug, 76
installing on Tallgrass hard disk, Oct, 113
justification rules in DOC window, Aug, 93
loading with empty B drive on floppy-based system, Sep, 105
memory used by SERVICES DOS command, Jun, 95
moving around documents with format lines, Jul, 85
retrieving non-English *Symphony* files, Jun, 96
settings sheets:
  CCF Settings sheet, creating, Jun, 79
  CCF Settings sheet automates phone and log-in, Mar, 85
  DOC window Format Settings sheet, using, Apr, 84
  Print Settings sheet, using, Apr, 86
toggle mode required to work with *Spotlight,* Feb, 101
using Release 1.1 with parallel port 2, Jun, 96
TAX
calculating maximum tax on current salary, o,s, Oct, 110
calculating year-to-date maximum amount, o,s, Apr, 96
personal-computer and home-office deductions, Feb, 18
TELECOMMUNICATIONS (*see* **COMMUNICATIONS**)
TIME (*see* **DATE/TIME**)
TRAINING
chess instruction for beginners, Mar, 26
computer boot camp, Apr, 32
John Censor: Executive Trainer, profile, Feb, 22
reviews (*see* **REVIEWS, TRAINING**)
using business-case analysis to teach *1-2-3,* Dec, 86
using Tutorial without replacing files on hard disk, o,s, Jun, 95
TRANSLATE (*see* **FILE TRANSLATION**)
TUTORIAL (*see* **TRAINING**)
UNIX
effect of Intel's 80386 chip on, Oct, 13
favored in some markets, Nov, 164
the future looks bright, May, 11
Three Cheers for Unix (S. Kelly-Bootle), essay, Nov, 164
USER GROUPS
list of, Apr, 95; Oct, 139; Dec, 130
publishing, Sep, 26
special-interest groups, May, 61
VOICE
IBM demos 5,000-word speech system, Jun, 13
IBM voice-phone products, Mar, 16
WALKER, JOHN: Bringing CAD to Micros, profile, Jul, 22
WANG
error messages on, o, Oct, 122
transferring DBM II to IBM file format, o,s, Jun, 95
WINDOWS
basics about *Symphony* windows, s, Feb, 64; Mar, 37
changing layout, s, Feb, 68
COMM:
  auto-redialing, macro, s, May, 39
  controlling log-in sequence, s, May, 100
creating multiple windows, s, Feb, 64
DOC:
  determining word count, o,s, Jul, 82
  format lines, creating two at once, s, Nov, 108
  format lines, inserting, s, Apr, 85
  format lines, naming, s, Apr, 85
  Format Settings sheet, use of, s, Apr, 84
  justification rules, Aug, 93
  word wrap, how it works, s, Feb, 68
FORM:
  creating and modifying entry form, s, May, 80
  database ranges used in, s, May, 82
  using criteria to find records, s, Apr, 47
Restrict range, s, Mar, 37
switching window types, s, Feb, 68
synchronizing *Symphony* windows, macro, s, Apr, 94
undoing split windows, s, Mar, 85
using to explore restricted areas of worksheet, s, Oct, 109
WORKSHEET PROTECTION
protecting database fields, s, Dec, 99
protecting files by renaming file-name extension, o,s, Mar, 88
protecting files with passwords, o,s, Jun, 96
unlocking worksheet without password, s, Dec, 99
uppercase/lowercase affects password, s, Feb, 101
WORKSHEETS
ASCII graphics characters in worksheets, o,s, Jun, 100
copying identical data by expanding From range, o, Oct, 74
date-stamping, macro, o,s, Feb, 98
determining width, o, Jan, 83
Erase command vs. SpaceBar, o,s, Jul, 76; j, Jul, 78
erasing data while preserving formulas, s, Apr, 96
file format, technical information, o,s, Jun, 94
finding circular references, o,s, May, 99
locating first blank row in, macro, o, Dec, 97
maximizing data on page, o, Oct, 74
Some Future Trends in Spreadsheets (S. J. Kaplan), essay, Feb, 138
time-stamping, s, May, 36
tracking column width, o,s, Oct, 104
The Trouble with Spreadsheets (J. McGrath), essay, Mar, 130
using blank columns to move around, o, Oct, 72